



FORM PTO-1449, A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICATION NO.: 09/821,832	ATTY. DOCKET NO.: W0571.70010US02
		FILING DATE: March 30, 2001	CONFIRMATION NO.: 6240
		APPLICANT: Thomas Tuschl et al.	
		GROUP ART UNIT: 1637	EXAMINER: S. Chunduru
Sheet	1	of	5

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
SPC	A1	5,580,859		Felgner P.L. et al.	12-03-1996
	A2	5,770,580		Ledley F.D. & O'Malley B.W.	06-23-1998
	A3	5,972,704		Draper K.G. et al.	10-26-1999
	A4	6,225,290		German M. et al.	05-11-2001
	A5	6,475,726	B1	Tally et al.	06-25-1999
	A6	6,531,647	B1	Baulcombe et al.	09-22-1998
	A7	2002/0086356	A1	Tuschi et al.	07-04-2002
	A8	2002/0132257	A1	Giordano et al.	09-19-2002
	A9	2002/0137210	A1	Churikov	09-26-2002
	A10	2002/0160393	A1	Symonds et al.	10-31-2002
	A11	2003/0068301	A1	Draper et al.	04-10-2003
	A12	2003/0108923	A1	Tuschl et al.	06-12-2003
	A13	2003/0140362	A1	Macejak et al.	07-24-2003
	A14	2003/0148985	A1	Morrissey et al.	08-07-2003
	A15	2003/0171311	A1	Blatt et al.	09-11-2003
	A16	2003/0190654	A1	Heidenreich et al.	10-09-2003
	A17	2003/0206887	A1	Morrissey et al.	11-06-2003
	A18	2004/0038921	A1	Kreutzer et al.	08-11-2004
	A19	2004/0054156	A1	Draper et al.	03-18-2004
	A20	60/130,377		Pachuk et al.	06-06-2000
	A21	60/279,221		Tuschi et al.	11-19-2001

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
SPC	B1	WO	94/01550	A1	Agrawal, S. et al.	01-20-1994	
	B2	WO	99/32619	A1	Montgomery, M., et al.	07-01-199	
	B3	WO	99/49029	A1	Graham, MW et al.	09-30-1999	
	B4	WO	99/53050	A1	Waterhouse, PM et al.	10-21-1999	
	B5	WO	99/61631	A1	Heifetz, PB et al.	12-02-1999	
	B6	WO	00/01846	A2	Plaetinck et al.	01-13-2000	
	B7	WO	00/32619		Fire, A et al.	07-01-1999	
	B8	WO	00/44895	A1	Kreutzer, et al.	08-03-2000	
	B9	WO	00/63364	A2	Pachuk, C et al.	10-26-2000	
	B10	WO	00/63364	A3	Pachuk, C et al.	10-26-2000	
	B11	WO	01/75164	A2	Tuschi, et al.	10-11-2001	

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Sheet	2	of	5					

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
SPC	B12	WO	01/92513	A1	Arndt, et al.	12-06-2001	
	B13	WO	02/44321	A2	Tuschl, et al.	06-06-2002	
	B14	WO	02/055692	A2	Kreutzer, et al.	07-18-2002	
	B15	WO	02/059300	A2	Arndt, et al.	08-01-2002	
	B16	WO	02/059300	A3	Arndt, et al.	08-01-2002	
	B17	WO	03/029459	A2	MaxPlanck-Gesellschaft	04-12-2003	
	B18	WO	03/033700	A1	Kreutzer, et al.	04-24-2003	
	B19	WO	03/062394	A2	Genetica, Inc.	07-31-2003	
	B20	WO	03/099298	A1	MaxPlanck-Gesellschaft	12-04-2003	
	B21	DE	10100586	C1	Ribopharma AG	04-11-2002	
	B22	DE	19903713.2		Kreutzer, et al.	05-11-2000	
	B23	DE	19956568	A1	Kreutzer, et al.	08-17-2000	
	B24	DE	200 23 125	U1	Ribopharma AG	06-18-2003	
	B25	CA	2 359 180		Kreutzer, et al.	08-03-2000	
	B26	EP	0 983 370	B1	Greirson et al.	09-17-2003	
	B27	EP	1 144 623	B1	Kreutzer, et al.	08-28-2002	
	B28	EP	1 214 945	A2	Kreutzer, et al.	09-04-2002	
	B29	EP	1 214 945	A3	Kreutzer, et al.	09-04-2002	
	B30	GB	9827152.1		DEVGEN NV	07-03-1998	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
SPC	C1	"Agy Therapeutics announces study demonstrating utility of RNA interference in mammalian cells for CNS drug discovery." Press release, November 2001		
	C2	Agrawal S, "Antisense oligonucleotides: towards clinical trials." Trends in Biotechnology. 14: 376-87. Oct-96		
	C3	Ahlquist P., "RNA-dependent RNA polymerases, viruses, and RNA silencing." Science, 296: 1270-3, May 2002		
	C4	Anderson WF, "Human gene therapy." Nature. 392: 25-30, April 1998		
	C5	Bahraimian, MB et al. "Transcriptional and Postranscriptional Silencing of Rodent α (I) Collagen by a Homologous Transcriptionally Self-Silenced Transgene." Molecular and Cellular Biology. 19(1): 274-83.		
	C6	Bartel, B., "MicroRNA Shows Macro Potential" Scientist 17(12): 1-9, June 2003		
	C7	Billy E et al., Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines." PNAS., November 2001		
	C8	Bosher JM and Labouesse M., "RNA interference: genetic wand and genetic watchdog." Nature Cell Biology 2: E31-6, February 2000		
	C9	Branch AD, "A good antisense molecule is hard to find." Trends in Biochemical Sciences. 23: 45-50, Feb. 1998		
	C10	Brummelkamp T. et al., "A system for stable expression of short interfering RNAs in mammalian cells.", Scienceexpress. Pages 1-3; Science, 296:550-3, March 2002		

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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
<i>See</i>	C11	Caplen N. et al., "Specific Inhibition of gene expression by small double-stranded RNAs in invertebrate and vertebrate systems.", PNAS, 98(17): 9742-7, August 2001	
	C12	Carmell M. et al., "The Argonaute family: tentacles that reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis." Genes & Dev., 16: 2733-42, 2002	
	C13	Castanotto D. et al., "Functional siRNA expression from transfected PCR products." RNA, 8(11): 1454-60, August 2002	
	C14	Chiu Y-L, et al., "siRNA function in RNAi: a chemical modification analysis." RNA, 9: 1034-48, June 2003	
	C15	Chiu Y-L et al., "RNAi in human cells: basic structural and functional features of small interfering RNA." Molecular Cell., 10: 549-61, September 2002	
	C16	Clemens J. et al., "Use of Double-stranded RNA Interference In Drosophila Cell Lines to Dissect Signal Transduction Pathways" Proc. Natl. Acad. Sci. 97(12): 6499-6503, June 2000	
	C17	Clemens MJ and Elia A. "The double-stranded RNA-dependent protein kinase PKR: structure and function." J. of Interferon and Cytokine Res. 17: 503-24. 1997	
	C18	Corsi A. et al., "Caenorhabditis elegans Twist plays an essential role in non-striated muscle development.", Development, 127: 2041-51, April 2000	
	C19	Devroe E. et al., "Retrovirus-delivered siRNA." BMC Biotechnology, 2:15, August 2002	
	C20	Dichoso D. et al., "The MADS-Box factor CeMEF2 is not essential for Caenorhabditis elegans myogenesis and development." Dev. Biol., 223: 431-40, 2000	
	C21	Elbashir S. et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs, Genes Dev., 15: 188-200, January, 2001	
	C22	Elbashir S. et al., "Functional anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate." The EMBO Journal. 20(23): 6877-88, 2001	
	C23	Elbashir S. et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in mammalian cell culture.", Nature., 411: 494-8, May, 2001	
	C24	Elela SA and Ares M., "Depletion of yeast Rnase III blocks correct U2 3' end formation and results in polyadenylated but functional U2 snRNA." The EMBO Journal. 17(13): 3738-46, 1998	
	C25	Escobar MA et al., "RNAi-mediated oncogene silencing confers resistance to crown gall tumorigenesis." PNAS., 98(23): 13437-42, November 2001	
	C26	Filippov V. et al., "A novel type of Rnase III family proteins in eukaryotes." Gene, 245(1): 213-21, February 2000	
	C27	Gonczy P. et al., "Functional genomic analysis of cell division in C. elegans using RNAi of genes on chromosome III." Nature., 408(6810): 331-6, November, 2000	
	C28	Grishok A. et al., "Genetic requirements for inheritance of RNAi in C. elegans." Science. 287: 2494-7., March 2000	
	C29	Grishok A. et al., "Target dependent accumulation of small RNAs during RNAi in C. elegans." 2001 International C.elegans Meeting Abstracts. [wm2001p307], May 2001	
	C30	Grishok A. et al., "RNAi (Nematodes:Caenorhabditis elegans) Adv. Genet. 46:339-360, 2002	
	C31	Hamilton, AJ et al. "A species of small antisense RNA in posttranscriptional gene silencing in plants." Science, 286(5441): 950-2	
	C32	Hammond S. et al., "Argonaute2, a link between genetic and biochemical analyses of RNAi." Science, 293: 1146-50, August 2001	
	C33	Hammond S. et al., "Post-Transcriptional Gene Silencing By Double-Stranded RNA". Nature Reviews Genetics., 2: 110-119, February 2001	
	C34	Hsieh J. et al., "The RING finger/B-Box factor TMA-1 and a retinoblastoma-like protein LIN-35 modulate context-dependent gene silencing in Caenorhabditis elegans", Genes Dev., 13: 2958-70, September, 1999	
	C35	Hsieh J. et al., "Recognition and silencing of repeated DNA", Annu. Rev. Genet., 34: 187-204, 2000	
	C36	Hutvagner G, et al, "Detailed characterization of the posttranscriptional gene-silencing-related small RNA in a GUS gene-silences tobacco." RNA, 6: 1445-54, July 2000	
<i>✓</i>	C37	Hutvagner G. et al., "In vitro processing of pre-let-7 RNA." 2001 RNA Society Meeting Abstracts, May, 2001	

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Sheet	4	of	5				

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
SC	C38	Hutvagner G. et al, "A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA". Science. 293(5531): 811-3, July 2001	
	C39	Hutvanger G. et al., "Intersection of the RNA interference and small temporal RNA pathways." Meeting Abstract. Cold Spring Harbor Laboratory meeting on "Eukaryotic mRNA Processing", August 2001	
	C40	International Search Report PCT/US01/10188 Int'l. Filing Date: 30/3/2001	
	C41	Jarvis R., "Optimize Transfection of siRNAs for RNAi", TechNotes, 9:6, 2002	
	C42	Kostich M, et al., "Identification and molecular genetic characterization of a LAMP/CD68-like protein from Caenorhabditis elegans", Journal of Cell Science, 113: 2595-606, June, 2000	
	C43	Lam G. et al., "Inducible expression of double-stranded RNA directs specific genetic interference in Drosophila." Curr. Biol., 10(16): 957-63, August, 2000	
	C44	Lee N. et al., "Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells. Nat. Biotech., 20: 500-5, 2002	
	C45	Levin JZ et al., "Methods of double-stranded RNA-mediated gene inactivation in Arabidopsis and their use to define an essential gene in methionine biosynthesis." Plant Molecular Biology. 44(6): 759-75, December, 2000	
	C46	Li H. et al., "Induction and suppression of RNA silencing by an animal virus." Science, 296: 1319-21, May 2002	
	C47	Lin, et al. "RNA interference: policing rogue genes." Nature, 402(6758); 128-9	
	C48	Liu J. et al., "Essential role for Caenorhabditis elegans lamin gene in nuclear organization, cell cycle progression, and spatial organization of nuclear pore complexes.", Molecular Biology of the Cell, 11: 3937-47, November, 2000	
	C49	Liu J. et al., "Overlapping role of two Hox genes and the exd ortholog ceh-20 in diversification of the C.elegans postembryonic mesoderm.", Development., 127: 5179-90, November, 2000	
	C50	Matsuda S. et al., "Molecular cloning and characterization of a novel human gene (HERNA) which encodes a putative RNA-helicase." Biochim. Biophys. Acta. 1490(1-2): 163-9, January 2000	
	C51	McManus M. et al., "Gene silencing using micro-RNA designed hairpins." RNA, 8: 842-50, April 2002	
	C52	McCaffrey et al., "RNA interference in adult mice." Nature, 418: 38-9, July 2002	
	C53	McManus et al., "Gene silencing in mammals by small interfering RNAs" Nature Reviews, 3: 737-47, October 2002	
	C54	Mercola D and Cohen JS, "Antisense approaches to gene therapy." Cancer Gene Therapy. 2(1): 47-59. 1995	
	C55	Moss EG, et al., "Non-coding RNA's: lightning strikes twice." Curr. Biol., 10(12): R436-9, June 2000	
	C56	Nicholson A, et al., "Function, mechanism, and regulation of bacterial ribonucleases" FEMS Microbiol Rev, 23(3): 371-90, June, 1999.	
	C57	Notice of Opposition to European Patent No. EP 1 144 623 and Opposition papers filed in EPO by Atugen AG on May 28, 2003	
	C58	Notice of Opposition to European Patent No. EP 1 144 623 and Opposition papers filed in EPO by Janssen Pharmaceutica N.V. on May 28, 2003	
	C59	Paddison P. et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian cells", Genes Dev., 16: 948-58, March 2002	
	C60	Papers filed in EPO in opposition to European Patent No. EP 1 144 623 by Aventis Pharma Deutschland GmbH on May 28, 2003	
	C61	Papers filed in EPO in opposition to European Patent No. EP 1 144 623 by Dr. Martin Grund on May 28, 2003	
	C62	Papers filed in EPO in opposition to European Patent No. EP 1 144 623 by SiRNA Therapeutics Inc. on May 19, 2003	
	C63	Parrish S. et al. "Distinct Roles for RDE-1 and RDE-4 during RNA interference in Caenorhabditis elegans", RNA, 7: 1397-402, 2001	
	C64	Pasquinelli A. et al., "Conservation of the sequence and temporal expression of let-7 heterochronic regulatory RNA." Nature, 408(6808): 86-9, November, 2000	
	C65	Paul C. et al., "Effective expression of small interfering RNA in human cells." Nat. Biotech., 20: 550-3, 2002	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICATION NO.: 09/821,832	ATTY. DOCKET NO.: W0571.70010US02
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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
ER	C66	Plasterk R. "RNA silencing: the genome's immune system." <i>Science</i> , 296: 1263-5, May 2002	
	C67	Reinhart B. et al., "The 21-nucleotide let-7 RNA regulates developmental timing in <i>Caenorhabditis elegans</i> ." <i>Nature</i> , 403(6722): 901-6, February 2000	
	C68	Robinson, R., "RNAi Therapeutics: How Likely, How Soon?" <i>PloS Biology</i> 2:18-20, January 2004	
	C69	Rotondo G et al. "Substrate structure requirements of the <i>PacI</i> ribonuclease from <i>Schizosaccharomyces pombe</i> ." <i>RNA</i> , 3: 1182-93, 1997	
	C70	Schweizer P et al., "Technical advance. Double-stranded RNA interferes with gene function at the single-cell level in cereals." <i>Plant Journal</i> . 24(6): 895-903, December, 2000	
	C71	Sharp P. et al., "RNAi and double-strand RNA" <i>Genes & Dev.</i> 13: 139-41, January, 1999	
	C72	Sharp, P., "RNA Interference-2001" <i>Genes and Development</i> 15:485-490, 2001	
	C73	Sijen T. et al., "On the role of RNA amplification in dsRNA-triggered gene silencing.", <i>Cell</i> , 107: 465-76, November 2001	
	C74	Silencer TM Express Kit Instruction Manual, Version 0305, Ambion, Inc., May 2003	
	C75	Slack F. et al., "The <i>lin-41</i> RBCC gene acts in the <i>C. elegans</i> heterochronic pathway between the <i>let-7</i> regulatory RNA and the <i>LIN-29</i> transcription factor." <i>Mol Cell</i> , 5(4): 659-69, April 2000	
	C76	Smith N. et al., "Total silencing by intron-spliced hairpin RNAs." <i>Nature</i> . 407: 319-20, September, 2000	
	C77	Strauss, E. et al., "Molecular Biology. Candidate "gene silencers found." <i>Science</i> , 286(5441): 886	
	C78	Storz G., "Expanding universe of noncoding RNAs." <i>Science</i> , 296: 1260-62., May 2002	
	C79	Sui G. et al., "A DNA vector-based RNAi technology to suppress gene expression in mammalian cells." <i>PNAS</i> , 99(8): 5515-20, April 2002	
	C80	Svoboda et al., "Selective Reduction of Dormant Maternal mRNAs in Mouse Oocytes by RNA Interference" <i>Development</i> 127: 4147-4156, September, 2000	
	C81	Tabara H. et al., "RNAi In <i>C. Elegans</i> : Soaking in the Genome Sequence" <i>Science</i> 282:430-431, October, 1998	
	C82	Tenllado F and Diaz-Ruiz JR., "Double-stranded RNA-mediated interference with plant virus infection." <i>J. Virology</i> . 75: 12288-97, December 2001	
	C83	Timmons L. et al., "Ingestion of bacterially expressed dsRNAs can produce specific and potent genetic interference in <i>Caenorhabditis elegans</i> ", <i>Gene</i> , 263: 103-12, 2001	
	C84	Tuschl T., "RNA Interference and Small Interfering RNAs" <i>Chembiochem</i> 2:239-245, 2001	
	C85	Tuschl T., "RNA Silencing" <i>Upstate Bio.</i> 3:1-15, December 2004	
	C86	Ui-Tei K, et al., "Sensitive assay of RNA interference in <i>Drosophila</i> and Chinese hamster culture cells using firefly luciferase gene as target." <i>FEBS Letters</i> . 479: 79-82, 2000	
	C87	Verma IM and Somla N, "Gene therapy - promises, problems, and prospects." <i>Nature</i> . 389: 239-42, September 7, 1997	
	C88	Waterhouse, PM et al., "Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA" <i>Proc. Natl. Acad. Sci.</i> , 96: 13959-64.	
	C89	Wianny et al., "Specific Interference With Gene Function By Double-Stranded RNA in Early Mouse Development" <i>Nature Cell Biology</i> 2: 70-74, March 2000	
	C90	Yang S et al., "Specific double-stranded RNA interference in undifferentiated mouse embryonic stem cells." <i>Molecular and Cellular Biology</i> . 21(22): 7807-16, November 2001	
	C91	Yu J-Y. et al., "RNA interference by expression of short-interfering RNAs and hairpin RNAs in mammalian cells." <i>PNAS</i> , 99(9): 6047-52, April 2002	
	C92	Zamore P., "Ancient Pathways programmed by small RNAs." <i>Science</i> , 296: 1265-9, May 2002	

EXAMINER <i>S. Chunduru</i>	DATE CONSIDERED <i>4/5/05</i>
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
0399.2008-002APPLICATION NO.
09/821,832THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
CITATION IN AN APPLICATIONAPPLICANT
Thomas Tuschl, *et al.*

July 23, 2003

(Use several sheets if necessary)

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1637

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
SPG	AB	6,573,099 B2	June 3, 2003	Graham
SPG	AC	6,506,559 B1	January 14, 2003	Fire, <i>et al.</i>
SPG	AD	2002/0132257 A1	September 19, 2002	Giordano, <i>et al.</i>
	AE			
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	AG			
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
SPG	AM	WO 03/033700 A1	24 April 2003	PCT	X
	AN	WO 02/055692 A2	18 July 2002	PCT	X
	AO	WO 02/055692 A3	18 July 2002	PCT	X
	AP	WO 00/44895	03 August 2000	PCT	X
	AQ	EP 1 144 623 B1	29 January 2000	Europe	X
	AL2	EP 1 214 945 A2	29 January 2000	Europe	X
	AM2	EP 1 214 945 A3	29 January 2000	Europe	X
↓	AN2	WO 99/32619	01 July 1999	PCT	
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	AP2				
	AQ2				

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APPLICANT
Thomas Tuschl, et al.

FILING DATE
March 30, 2001

PAGE
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U.S. PATENT DOCUMENTS

EXAM INER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
SPG	AA	5,908,779	01 JUN 1999	Carmichael, et al.	435	325	
	AB						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL						
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	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SPG	W	Fire, A., et al., "Potent and Specific Genetic Interference By Double-Stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Nature</i> 391:806-811 February 15, 1998
	W	Tuschl, T., et al., "Targeted mRNA Degradation By Double-Stranded RNA In Vitro," <i>Genes & Development</i> 13:3191-3197 (1999)
	W	Kennerdell, J.R. and Carthew, R.W., "Use of dsRNA-Mediated Genetic Interference to Demonstrate that <i>frizzled</i> and <i>disfrizzled</i> Act in the Wntless Pathway," <i>Cell</i> 97:1025-1034 (1999)

Prabha Choudhury 6/6/05

RECEIVED

ECHO CENTER 1600 2900

01 INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APR 12 2002 April 12, 2002

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ATTORNEY DOCKET NO.
0399.2008-102

APPLICATION NO.
09/821,832

APPLICANT
Thomas Tuschl, et al.

FILING DATE
March 30, 2001

GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

82	AM2	Grishok, A., et al. "Genetic Requirements for Inheritance of RNAi in <i>C. elegans</i> ," <i>Science</i> 287:2494-2497 (March 2000)
	AM3	Ketting, R.F., et al. "mut-7 of <i>C. elegans</i> , Required for Transposon Silencing and RNA Interference, Is a Homolog of Werner Syndrome Helicase and RNaseD," <i>Cell</i> 99:133-141 (October 1999)
	AS3	Tabara, H., et al. "The <i>rde-1</i> Gene, RNA Interference, and Transposon Silencing in <i>C. elegans</i> ," <i>Cell</i> 99:123-132 (October 1999)
	AT2	Smardon, A., et al., "EGO-1 is Related to RNA-directed RNA Polymerase and Functions in Germ-line Development and RNA Interference in <i>C. elegans</i> ," <i>Current Biology</i> 10(4):169-178 (February 2000)
	AM3	Pal-Bhadra, M., et al., "Cosuppression of Nonhomologous Transgenes in <i>Drosophila</i> Involves Mutually Related Endogenous Sequences," <i>Cell</i> 99:35-46 (October 1999)
	AV3	Fire, A., "RNA-triggered Gene Silencing," <i>Trends in Genetics</i> 15:358-363 (1999)
	AW3	Sharp, P. A. and Zamore, P. D., "RNA Interference," <i>Science</i> 287:2431-2433 (March 2000)
	AX3	Sijen, T. and Kooter, J. M., "Post-transcriptional Gene-silencing: RNAs on the Attack or on the Defense," <i>BioEssays</i> 22:520-531 (2000)
	AV3	Bass, B. L., "Double-Stranded RNA as a Template for Gene Silencing," <i>Cell</i> 101:235-238 (April 2000)
	A23	Hammond, S. M., et al., "Post-Transcriptional Gene Silencing By Double-Stranded RNA," <i>Nature Reviews Genetics</i> 2:110-119 (February 2001)
	AM4	Hammond, S.M., et al., "An RNA-Directed Nuclease Mediates Post-Transcriptional Gene Silencing in <i>Drosophila</i> Cells," <i>Nature</i> 404:293-296 (March 16, 2000)
	AS4	Zamore, P.D., et al., "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals," <i>Cell</i> 101:25-33 (March 31, 2000)
	AM4	Bernstein, E., et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA Interference," <i>Nature</i> 409:363-366 (January 18, 2001)
	AM4	Elbashir, S.M., et al., "RNA Interference is Mediated By 21-and 22-Nucleotide RNAs," <i>Genes & Development</i> 15:188-200 (2001)
✓	AM4	Caplen, N.J., et al., "dsRNA-Mediated Gene Silencing in Cultured <i>Drosophila</i> Cells: A Tissue Culture Model for RNAi," <i>Genes & Development</i> 15:188-200 (2001)

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APR 11 2002

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

April 12, 2002

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ATTORNEY DOCKET NO.
0399.2008-012APPLICATION NO.
09/821,832APPLICANT
Thomas Tuschl, et al.FILING DATE
March 30, 2001PAGE
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

82	AC	Montgomery, M.K. and Fire, A., "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-suppression," <i>TIG</i> 14(7):255-259 (July 1998)
	AC	Igo, H., et al., "Double-Stranded RNA Induces mRNA Degradation in <i>Trypanosoma brucei</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 95:14587-14592 (December 1998)
	AC	Lohmann, J.U., et al., "Silencing of Developmental Genes in <i>Hydra</i> ," <i>Developmental Biology</i> 214:211-214 (1999)
	AC	Clemens, M.J. and Williams, B.R.G., "Inhibition of Cell-Free Protein Synthesis by pppA'p'A'p' A: a Novel Oligonucleotide Synthesized by Interferon Treated L Cell Extracts," <i>Cell</i> 13:565-572 (March 1978)
	AC	Williams, B.R.G., et al., "The Respective Roles of the Protein Kinase and pppA'p'A'p' A-activated Endonuclease in the Inhibition of Protein Synthesis By Double-Stranded RNA in Rabbit Reticulocyte Lysates," <i>Nucleic Acids Research</i> 6(4): 1335-1350 (April 1979)
	AC	Chou, A., et al., "Expression Cloning of 2-5A-Dependent RNAase: A Uniquely Regulated Mediator of Interferon Action," <i>Cell</i> 72:751-765 (March 12, 1993)
	ACB	Chou, A., et al., "Interferon Action in Triply Deficient Mice Reveals the Existence of Alternative Antiviral Pathways," <i>Virology</i> 258:435-440 (1999)
	ACB	Wianny, F. and Zernicka-Goetz, M., "Specific Interference With Gene Function By Double-Stranded RNA In Early Mouse Development," <i>Nature Cell Biol.</i> 2:70-75 (February 2000)
	ACB	Gebauer, F., et al., "Translation Control of Dosage Compensation in <i>Drosophila</i> by Sex-lethal: Cooperative Silencing via the 5' and 3' UTRs of <i>msl-2</i> mRNA is Independent of the Poly(A) Tail," <i>The EMBO Journal</i> 18:21:6146-6154 (1999)
	ACB	Hamilton, A. J. and Baulcombe, D. C., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants," <i>Science</i> 256:950-952 (October 1999)
	ACB	Wagner, R. W. and Sun, L., Double stranded RNA solves puzzle," <i>Nature</i> 391:744-745 (February 1998)
	ACB	Sharp, P. A., "RNAi and Double-strand RNA," <i>Genes & Development</i> 13(2):139-140 (January 15, 1999)
✓	ACB	Bass, B. L., "RNA Editing and Hypermutation by Adenosine Deamination," <i>TIBS</i> 22:157-162 (1997)

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

APR 12 2002 April 12, 2002

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09/821,832APPLICANT
Thomas Tuschl, et al.FILING DATE
March 30, 2001GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- AK4 Kahlenbach, R.H., et al., "Nucleocytoplasmic Shuttling Factors Including Ran and CRM1 Mediate Nuclear Export of NFAT In Vitro," *J. Cell Biol.* 141(4):853-874 (May 13, 1998)
- AK4 Kumar, M. and Carmichael, G.G., "Antisense RNA: Function and Fate of Duplex RNA in Cells of Higher Eukaryotes," *Microbiol. and Molec. Biol. Reviews* 62(4):1415-1434 (December 1998)
- AK4 Wassebagger, M., "RNA-Directed DNA Methylation," *Plant Molec. Biol.* 43:203-220 (2000)
- AK4 Finnegan, E.J., et al., "Gene Silencing: Fleshing out the Bones," *Current Biol.* 11(3):R99-R102 (2001)
- ARS Kass, S.U., et al., "How Does DNA Methylation Repress Transcription?," *TIG* 13(11):444-449 (November 1997)
- ARS Razin, A., "CpG Methylation, Chromatic Structure and Gene Silencing--A Three-Way Connection," *EMBO Journal* 17(17):4905-4908 (1998)
- ATS Timmons, L. and Fire, A., "Specific Interference by Ingested dsRNA," *Nature* 395:854 (October 29, 1998)
- ARS Cogoni, C. and Macino, G., "Posttranscriptional Gene Silencing in *Neurospora* by a RecQ DNA Helicase," *Science* 286:2342-2344 (December 17, 1999)
- ARS Grant, S.R., "Dissecting the Mechanisms of Posttranscriptional Gene Silencing: Divide and Conquer," *Cell* 96:303-306 (February 5, 1999)
- ARS Catalanotto, C., et al., "Gene Silencing in Worms and Fungi," *Nature* 404:245 (March 16, 2000)
- ARS Hunter, C.P., "Gene Silencing: Sprinkling the Black Box of RNAi," *Current Biol.* 10(4):R137-R140 (2000)
- ARS Hunter, C.P., "Genetics: A Touch of Elegance with RNAi," *Current Biol.* 9(12):R440-R442 (1999)
- AK4 Grishik, A., et al., "Genes and Mechanisms Related to RNA Interference Regulate Expression of the Small Temporal RNAs that Control *elegans* Development Timing," *Cell* 106:53-64 (July 13, 2001)
- ARS Tabara, H. et al., "RNAi in *C. elegans*: Soaking in the Genome Sequence," *Science* 282: 430-431 (October 16, 1998)
- ARS Ketting, R.F. and Plasterk, R.H.A., "A Genetic Link Between Co-Suppression and RNA Interference in *C. elegans*," *Nature* 404:293-296 (March 16, 2000)

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